

DESIGNER NOTES

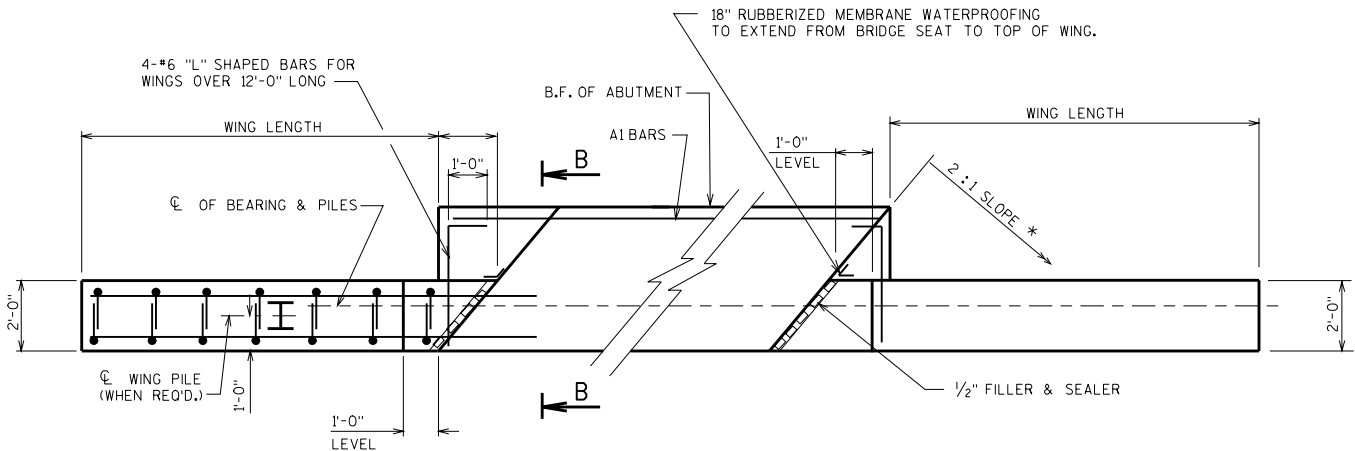
THIS TYPE OF WING MAY BE USED IN LIEU OF WINGS PARALLEL TO ROADWAY IF APPROVED BY THE BUREAU OF STRUCTURES DESIGN SECTION. DO NOT USE FOR STREAM CROSSINGS WHEN HIGH WATER ELEVATION IS ABOVE TOP OF BERM ELEVATION.

*USE 2½:1 FOR THE UNSTABLE CLAYS WHICH ARE SOMETIMES ENCOUNTERED IN NORTHWEST WISC. (SUPERIOR AREA)

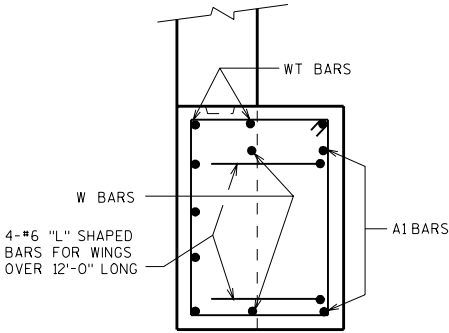
● WHEN TIMBER RAILING IS USED AS PER STANDARD 30.23, AND THE SKEW IS > 0°, THIS CONSTRUCTION JOINT SHALL BE MANDATORY. THE WING CONCRETE SHALL BE PLACED ABOVE CONSTR. JT. AFTER THE TIMBER END POSTS ARE IN PLACE.

DESIGN LOADS (WINGS)

LIVE LOAD = 1'-0" SURCHARGE
LOAD FACTOR = 1.3 (5/3 LL + 5/3 E)
HORIZONTAL EARTH LOAD = 33 LBS. PER SQ. FT. EQUIV.
FLUID PRESSURE
fy = 60,000 P.S.I.
fc = 3,500 P.S.I.

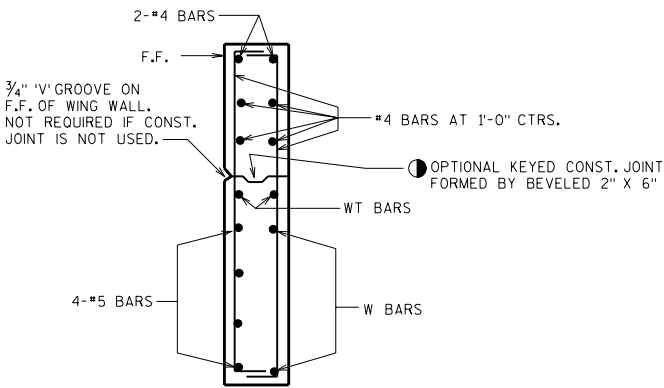
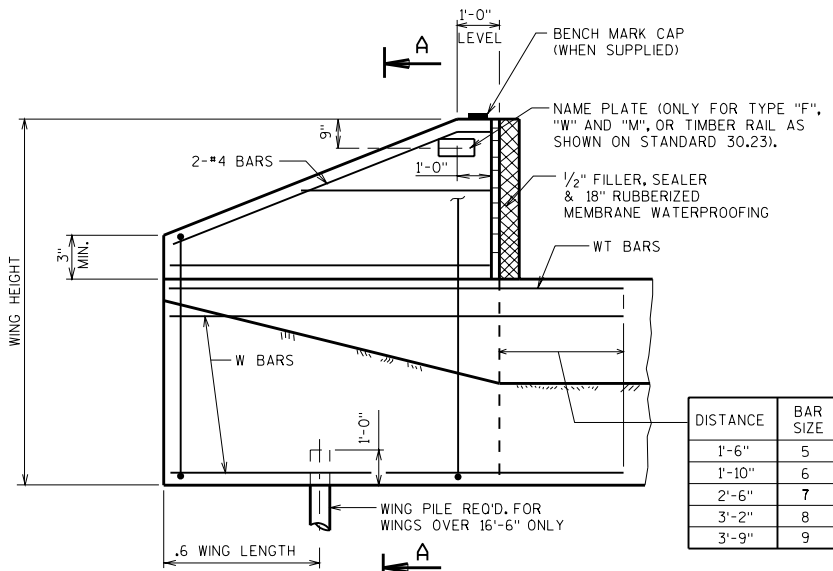


PLAN FOR TYPE A1 ABUTMENT



SECTION B-B

SEE STD. 12.1 & 12.2 FOR NOTES & DETAILS



SECTION A-A

TABLE A

WING LENGTH	WING HEIGHT				BARS
	8'-6"	10'-0"	11'-6"	13'-0"	
10'-0"	4-#5	4-#5	5-#5	---	W
	2-#5	2-#5	2-#5	---	WT
	4-#6	4-#6	4-#6	---	A1
12'-0"	---	4-#7	5-#7	4-#8	W
	---	2-#7	2-#7	2-#8	WT
	---	4-#6	5-#6	4-#7	A1
16'-0"	---	5-#8	6-#8	5-#9	W
	---	2-#8	2-#8	2-#9	WT
	---	6-#6	4-#8	6-#7	A1
20'-0"	---	---	8-#8	8-#9	W
	---	---	2-#8	2-#9	WT
	---	---	6-#8	7-#8	A1

▲ WING PILE REQUIRED

DETAILS FOR WINGS PARALLEL TO A1 ABUTMENT CENTERLINE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: _____ DATE: 3-06